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P-431
19 September 1963

U. S. Government
2430 E Street, N. W.
Washington 25, D. C.

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Attention:
Contracting Officer

Subject: Multiple Image Correlator (Mark I) Feasibility
Demonstration Proposal

Gentlemen:

STATINTL submits herewith a proposal for a Multiple Image Correlator Feasibility Demonstration at the customer's facility. Enclosure 1 contains a technical description of the work to be performed. Enclosure 2 contains cost breakdowns for the various tasks involved, and Enclosure 3 defines the conditions upon which this proposal is based.

This program may be performed as follows:

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- A. Tasks 1, 2, 3, and Task 4, Phase A - total estimated CPFF
- B. Tasks 1, 2, 3, and Task 4, Phase B - total estimated CPFF

The total estimated CPFF, as specified above, is based on a total program duration of eleven (11) weeks.

Additional information relating to this bid may be obtained by contacting the undersigned.

Very truly yours,

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Enclosure: 1, 2, and 3 As Stated Above

Declass Review by NIMA/DOD

19 September 1963

INTRODUCTION

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This proposal outlines the technical support considered necessary to demonstrate the capabilities of the Multiple Image Correlator (Mark I) developed as feasibility equipment under Contract [REDACTED], Task Order No. 2 (completed 1 August 1962). This same feasibility equipment was utilized (as GFE) in an evaluation program under Contract [REDACTED] Task Order No. 5, completed 29 July 1963.

It should be noted that the above feasibility equipment was utilized in a pre-design program for Multiple Image Correlator (Mark II) conducted as a parallel effort to Task Order No. 5 under Contract [REDACTED] Task Order No. 6, completed 29 July 1963.

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The proposed support program consists of the following tasks:

1. Preparation of the equipment for demonstration and shipping.
2. Packaging and shipping the equipment to customer's destination.
3. Setup and checkout of the equipment at the customer's facility.
4. Demonstration of the correlation technique.

Tasks 1 and 2 will be performed at [REDACTED] Tasks 3 and 4 will be performed at the customer's facility. Detail definition of tasks and schedules are provided in the body of the proposal.

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DESCRIPTION AND DEFINITION OF TASKS

GENERAL

STATINTL The Mark I Multiple Image Correlator has been at STATINTL for a period of approximately two years. The Mark I was developed as a feasibility model under Contract STATINTL Task Order No. 2, and was completed 1 August 1962. The Mark I was then supplied to as GFE to be used as the basis for an evaluation study and for use in a parallel effort for a predesign program for the Mark II version of the Multiple Image Correlator. These tasks were completed 29 July 1963 under Contract STATINTL Task Order No's. 5 and 6. During the time of development and evaluation, the equipment was subjected to extensive use. Therefore, for optimum demonstration capabilities at the customer's facility, it is considered necessary that task 1 be performed at facility prior to shipment. STATINTL

Task 1

In view of the intensive use to which the Correlator was subjected during the performance of the evaluation task, possibly the equivalent of 2 to 3 years normal operational use, the optical system will be checked and cleaned. The mechanical controls (X Y Θ) of all eight stages will be cleaned and lubricated. The electronic circuitry will be checked. During the performance of the evaluation task, certain additional mechanical electronic features were breadboarded. These features were not a part of the original feasibility model, but will now require a degree of incorporation into the equipment for operational and safety reasons.

Task 2

Task 2 will consist of packaging and crating the Mark I Multiple Image Correlator and shipping the unit to the customer's facility. Probable mode of transportation will be padded van.

Task 3

Task 3 will consist of installation of the Mark I Multiple Image Correlator at the customer's facility. This task will also include an optical and electronic checkout prior to demonstration use. Due to the critical alignment necessary in the optical system, this checkout is considered to be necessary after any moving operation.

Task 4

Task 4 will consist of demonstrating the image correlation capabilities of the machine at the customer's facility, and will encompass two phases. Phase A encompasses only the optical and photographic procedures for image correlation, and Phase B will encompass the electronic and photographic operation of the machine.

Phase A. If only optical demonstrations of correlation is required, normal darkroom facilities with film and paper processing will be needed. This demonstration will require the services of an optical engineer versed in the technique.

Phase B. To demonstrate both electronic and optical capabilities will require the services of both an optical and an electronic engineer. These demonstrations can be done at the same time, but an electronic demonstration will require both services whereas an optical demonstration will require only optical services.

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During the evaluation program conducted under Contract , Task Order No. 5, the equipment as listed below is necessary for the electronic mode of operation.

5 Hewlett-Packard 721-A Power Supplies

2 Textronic 545A Oscilloscopes

1 Krohn-Hite Variable Band-Pass Filter

OR

Equivalents in each case.

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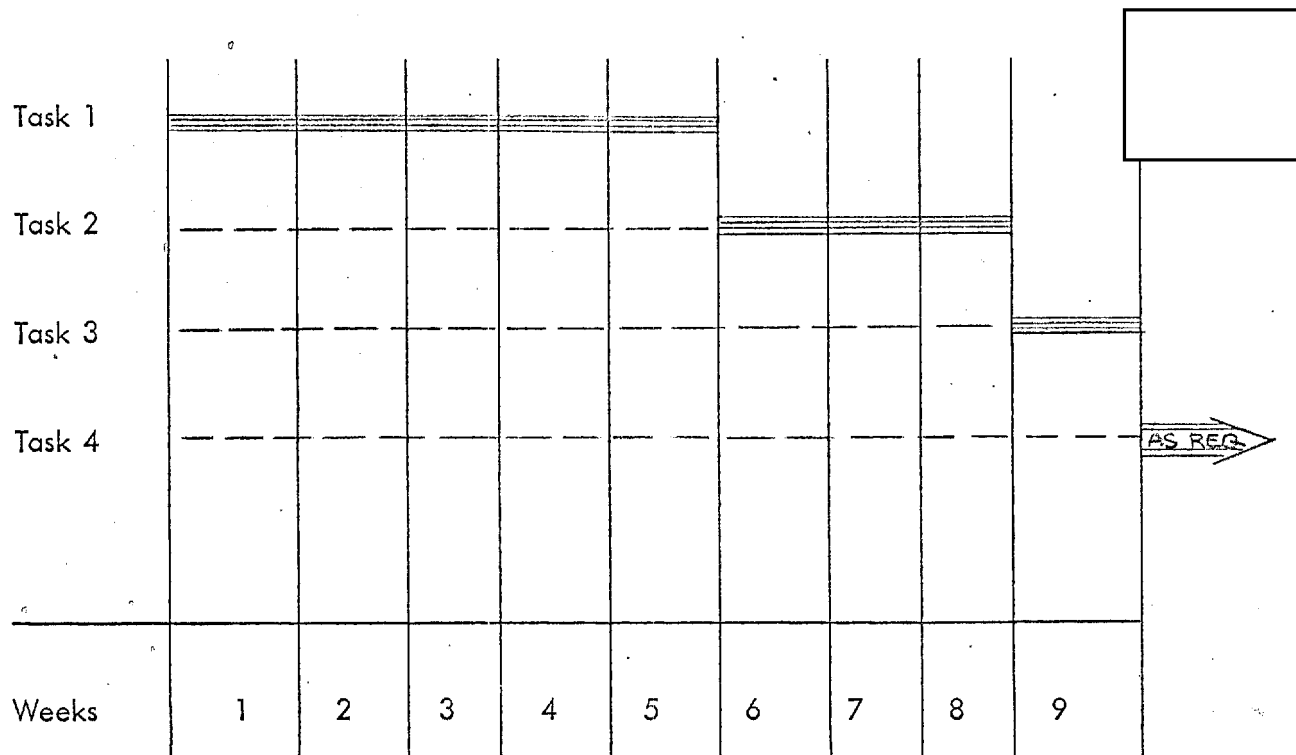
This equipment requires only hook-up to the Mark I with no modification to the machine. This listed equipment is standard electronic components and due to their use on other projects at will not be available for use at the customer's facility. It is felt that the above listed equipment can be easily leased in the area of the customer's facility, or procured from the customer's inventory. See Appendix A for approximate leasing costs.

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It is proposed that the personnel required for task 4 be made available at customer request on a demonstration-as-desired basis as their services cannot be spared for full time requirements covering any more than one to two weeks in duration.

TASK SCHEDULE

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APPENDIX A

EQUIPMENT REQUIRED FOR ELECTRONIC MODE

The electronic equipment listed under task four (4) of the proposal which is necessary to operate in the electronic mode may be either taken from the customer's inventory or leased in the area of the customer's facility. A survey was conducted in this area and the following average costs were determined.

	Unit	Number Required	6 Month Lease	1 Year Lease
1)	Hewlett-Packard #721-A Power Supply	5		
2)	Textronic #545A Oscilloscope	2		
3)	Krohn-Hite Variable Band Pass Filter	1		

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19 September 1963

Page 1 of 2

Cost Summary

Tasks 1, 2 and 3

	<u>Hours</u>	<u>Rate</u>	<u>Extension</u>	STATINTL
Direct Labor				
Engineering Design				
Design Support				
Total Direct Labor				STATINTL
Burden at <input type="text"/> percent				
Material				
Material Handling at <input type="text"/> percent				
Shipping				
Travel				
Total Estimated Cost				
G&A at <input type="text"/> percent				
Total Cost				
Fixed Fee				
Total CPFF			<input type="text"/>	STAT

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ENCLOSURE 3

P-431

19 September 1963

CONDITIONS OF BID

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☐ Proposal P-431 is a CPFF Bid for performing a Multiple Image Correlator (Mark I) Feasibility Demonstration, and is based upon the following conditions:

- A. Performance in accordance with the Technical Proposal explicitly defined in Enclosure 1 hereto.
- B. Completion of performance within eleven (11) weeks after receipt of contractual authority to proceed.
- C. Performance of the Electronic Mode Demonstration (Phase B of Task 4) is based upon availability of Government Furnished Property defined in Appendix A to Enclosure 1 hereto.

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- D. The costs quoted herein do not include any Federal, State, local, or other taxes from which ☐ is exempt at the date of the attached proposal. If the Contractor must bear the burden of any taxes from which he was exempt at the date of this proposal, or any taxes enacted subsequent hereto but applied retroactively, the cost of this proposal shall be adjusted accordingly.

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- E. The man day rates quoted in Enclosure 2 are based on normal working days. Per diem will be reimbursed for every day the ☐ Representative/s are away from our ☐ with the CPFF quoted herein adjusted accordingly.

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- F. Costs of general research and overhead will be allowable to the extent they are found to be reasonable.

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- G. Packaging will be in accordance with ☐ standard commercial practice for domestic shipments.

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- H. ☐ generally accepts terms and conditions required by the most recent revision of the Armed Services Procurement Regulations, Clause 7-203, for cost reimbursement supply type contracts.

- I. The f.o.b. point is destination, Washington, D.C.

- J. This proposal is firm for a period of thirty (30) days from date of submittal.

- K. The total CPFF stated in the cover letter was computed as follows: Total CPFF for Tasks 1, 2, and 3, plus the initial man day rate depending on the phase, plus nine times the rate for additional days, again depending on the phase for Task 4.